AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (original) A method for changing over to a different frequency at a cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure first reception quality in said first frequency during the communication with said first base station by setting a channel, and also

said mobile communication terminal is controlled to measure second reception quality in said second frequency corresponding to said first reception quality during the communication with said first base station by setting the channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station corresponding to said first and second reception quality, wherein:

said method for changing over to a different frequency, comprising the step of:

changing the condition of measuring said second reception quality corresponding to the traffic in said first frequency by said base station controlling apparatus.

2. (original) A method for changing over to a different frequency in accordance with claim 1, further comprising the steps of:

changing first and second threshold values corresponding to said traffic in said first frequency by said base station controlling apparatus; and

instructing said mobile communication terminal to measure said second reception quality by said base station controlling apparatus, when said first reception quality is less than said first threshold value.

3. (original) A method for changing over to a different frequency at a cellular phone system, in which a mobile communication terminal, a first base station and a second base

station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure first reception quality in said first frequency and second reception quality in said second frequency during the communication with said first base station by setting a channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station when the difference between said second reception quality and said first reception quality exceeded a third threshold value, wherein:

said method for changing over to a different frequency, comprising the steps of:

measuring the traffic in said first frequency by said base station controlling apparatus; and

changing said third threshold value corresponding to said measured traffic by said base station controlling apparatus.

4. (previously presented) A method for changing over to a different frequency in accordance with claim 1, further comprising the step of:

controlling said mobile communication terminal not to measure said second reception quality by said base station controlling apparatus in case that said traffic is less than a specific value.

5. (original) A method for changing over to a different frequency at a cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure second reception quality in said second frequency during the communication with said first base station by setting a channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the

channel from said first base station to said second base station when said second reception quality exceeded a fourth threshold value, wherein:

said method for changing over to a different frequency, comprising the steps of:

measuring the traffic in said first frequency by said base station controlling apparatus; and

changing said fourth threshold value corresponding to said measured traffic by said base station controlling apparatus.

6. (original) A method for changing over to a different frequency in accordance with claim 5, further comprising the step of:

controlling said mobile communication terminal to communicate with said second base station by changing over the channel from said first base station to said second base station in case that said measured traffic exceeded a designated threshold value by said base station controlling apparatus.

7. (original) A method for changing over to a different frequency at a cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure first reception quality in said first frequency during the communication with said first base station by setting a channel, and also

said mobile communication terminal is controlled to measure second reception quality in said second frequency corresponding to said first reception quality during the communication with said first base station by setting the channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station corresponding to said first and second reception quality, wherein:

said method for changing over to a different frequency, comprising the step of:

changing the condition of measuring said second reception quality corresponding to the transmission rate in said mobile communication terminal by said base station controlling apparatus.

8. (original) A method for changing over to a different frequency in accordance with claim 7, further comprising the steps of:

changing first and second threshold values corresponding to said transmission rate in said mobile communication terminal by said base station controlling apparatus; and

instructing said mobile communication terminal to measure said second reception quality by said base station controlling apparatus, when said first reception quality is less than said first threshold value.

9. (original) A method for changing over to a different frequency at a cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure first reception quality in said first frequency and second reception quality in said second frequency during the

communication with said first base station by setting a channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station when the difference between said second reception quality and said first reception quality exceeded a third threshold value, wherein:

said method for changing over to a different frequency, comprising the step of:

changing said third threshold value corresponding to said transmission rate in said mobile communication terminal by said base station controlling apparatus.

10. (original) A method for changing over to a different frequency at a cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure second reception quality in said second frequency during the communication with said first base station by setting a channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station when said second reception quality exceeded a fourth threshold value, wherein:

said method for changing over to a different frequency, comprising the step of:

changing said fourth threshold value corresponding to said transmission rate in said mobile communication terminal by said base station controlling apparatus.

11. (previously presented) A method for changing over to a different frequency in accordance with claim 1, wherein:

said first base station transmits a first broadcast channel and said second base station transmits a second broadcast channel, and

said first reception quality is reception quality in said first broadcast channel and said second reception quality is reception quality in said second broadcast channel.

12. (previously presented) A method for changing over to a different frequency in accordance with claim 1, further comprising the steps of:

making a data vacant time in which data are not transmitted by compressing transmitting data in the time by said first base station; and

measuring said second reception quality in said data vacant time by said mobile communication terminal.

13. (original) A cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure first reception quality in said first frequency during the communication with said first base station by setting a channel, and also

said mobile communication terminal is controlled to measure second reception quality in said second frequency

corresponding to said first reception quality during the communication with said first base station by setting the channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station corresponding to said first and second reception quality, wherein:

said base station controlling apparatus, comprising:

a condition changing means for changing the condition of measuring said second reception quality corresponding to the traffic in said first frequency.

14. (original) A cellular phone system in accordance with claim 13, wherein:

said base station controlling apparatus, further comprising:

a first threshold value changing means for changing first and second threshold values corresponding to said traffic in said first frequency; and

an instructing means for instructing said mobile communication terminal to measure said second reception quality, when said first reception quality is less than said first threshold value.

15. (original) A cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure first reception quality in said first frequency and second reception quality in said second frequency during the communication with said first base station by setting a channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station when the difference between said second reception quality and said first reception quality exceeded a third threshold value, wherein:

said base station controlling apparatus, comprising:

a traffic measuring means for measuring the traffic in said first frequency; and

a second threshold value changing means for changing said third threshold value corresponding to said measured traffic.

16. (previously presented) A cellular phone system in accordance with claim 13, wherein:

said base station controlling apparatus, further comprising:

a first controlling means for controlling said mobile communication terminal not to measure said second reception quality in case that said traffic is less than a specific value.

17. (original) A cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure second reception quality in said second frequency during the communication with said first base station by setting a channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the

channel from said first base station to said second base station when said second reception quality exceeded a fourth threshold value, wherein:

said base station controlling apparatus, comprising:

a traffic measuring means for measuring the traffic in said first frequency; and

a third threshold value changing means for changing said fourth threshold value corresponding to said measured traffic.

18. (original) A cellular phone system in accordance with claim 17, wherein:

said base station controlling apparatus, further comprising:

a second controlling means for controlling said mobile communication terminal to communicate with said second base station by changing over the channel from said first base station to said second base station in case that said measured traffic exceeded a designated threshold value.

19. (original) A cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure first reception quality in said first frequency during the communication with said first base station by setting a channel, and also

said mobile communication terminal is controlled to measure second reception quality in said second frequency corresponding to said first reception quality during the communication with said first base station by setting the channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station corresponding to said first and second reception quality, wherein:

said base station controlling apparatus, comprising:

a condition changing means for changing the condition of measuring said second reception quality corresponding to the transmission rate in said mobile communication terminal.

20. (original) A cellular phone system in accordance with claim 19, wherein:

said base station controlling apparatus, further comprising:

a first threshold value changing means for changing first and second threshold values corresponding to said transmission rate in said mobile communication terminal; and

an instructing means for instructing said mobile communication terminal to measure said second reception quality, when said first reception quality is less than said first threshold value.

21. (original) A cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure first reception quality in said first frequency and second reception quality in said second frequency during the

communication with said first base station by setting a channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station when the difference between said second reception quality and said first reception quality exceeded a third threshold value, wherein:

said base station controlling apparatus, comprising:

a second threshold value changing means for changing said third threshold value corresponding to said transmission rate in said mobile communication terminal.

22. (original) A cellular phone system, in which a mobile communication terminal, a first base station and a second base station, and a base station controlling apparatus are provided, wherein:

said first base station communicates with said mobile communication terminal by setting a channel using a first frequency, and

said second base station communicates with said mobile communication terminal by setting a channel using a second frequency, and

said mobile communication terminal is controlled to measure second reception quality in said second frequency during

the communication with said first base station by setting a channel, and

said mobile communication terminal is controlled to communicate with said second base station by changing over the channel from said first base station to said second base station when said second reception quality exceeded a fourth threshold value, wherein:

said base station controlling apparatus, comprising:

a third threshold value changing means for changing said fourth threshold value corresponding to said transmission rate in said mobile communication terminal.

23. (previously presented) A cellular phone system in accordance with claim 13, wherein:

said first base station transmits a first broadcast channel and said second base station transmits a second broadcast channel, and

said first reception quality is reception quality in said first broadcast channel and said second reception quality is reception quality in said second broadcast channel.

24. (previously presented) A cellular phone system in accordance with claim 13, wherein:

said first base station, comprising:

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a data vacant time making means for making a data vacant time in which data are not transmitted by compressing transmitting data in the time; and

said mobile communication terminal, comprising:

a measuring means for measuring said second reception quality in said data vacant time.

25-35. (canceled)